| Inde | ex of | Claims |  |
|------|-------|--------|--|
|      |       |        |  |

Application/Control No.

10/711,787

Examiner

Timothy L. Maust

Applicant(s)/Patent under Reexamination

**MELVIN ET AL** 

Art Unit

3751

✓ Rejected
= Allowed

\_ (Through numeral)
Cancelled

Restricted

N Non-Elected

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A Appeal
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|  |          | Ц.       | Щ.       |          | _        | _        | ,        |          | _        | Ь               |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------------|
| Cis  | im       | Date     |          |          |          |          |          | _        |          |                 |
| <u> ۳</u>  |          |          |          |          |          |          |          |          | Н        |                 |
| Final  | Original | 10/4/06  |          |          |          |          |          |          |          |                 |
| $\vdash$   |          | Ļ        | -        | -        | ├        | ┡        | -        | ├        | -        | Н               |
| <b></b>  | 1        | <u> </u> | ⊢        | ⊢        | ⊢        | ⊢        | H        | ⊢        | $\vdash$ | Н               |
| <del></del>                                      | 3        | /<br>N   | ⊢        | ⊢        | ⊢        | -        | -        | ├        | -        | Н               |
|  | 4        | N        | ⊢        | ⊢        | ⊢        | -        | H        | ├        | _        | Н               |
| <del>                                     </del> | 5        | N        | $\vdash$ | ├        | $\vdash$ | ⊢        | -        | ⊢        | -        | Н               |
| -  | 6        | N        | ⊢        | ⊢        | ⊢        | ⊢        | Н        | ⊢        | $\vdash$ | Н               |
| _  | 7        | ۳        | Н        | ┢        | ┢        | ┢        | H        | H        | ┢        | Н               |
|  | 8        | Г        | Г        | Г        |          | Г        |          |          |          | Н               |
|  | 9        | Т        | Т        | Г        | Т        | Г        | Г        |          | Г        | П               |
|  | 10       |          |          |          |          |          |          |          |          |                 |
|  | 11       |          |          |          |          |          |          |          |          |                 |
|  | 12       |          |          | L        |          |          |          |          |          | Ш               |
| <u> </u>   | 13       | <u> </u> | <u> </u> | Ш        | L        | L        | <u> </u> | L.       | L_       | Ш               |
| <u> </u>   | 14       | $\vdash$ | ⊢        |          | <u> </u> | <b> </b> | <u> </u> | L        | <b> </b> | Щ               |
| <u> </u>   | 15       | <u> </u> | ⊢        | $\vdash$ | _        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | Ш               |
| <b>—</b>   | 16<br>17 |          | -        | ⊢        | H        | ⊢        | $\vdash$ | H        | $\vdash$ | $\vdash \vdash$ |
| $\vdash$   | 18       | ⊢        | $\vdash$ | $\vdash$ | $\vdash$ | ├-       |          | $\vdash$ | $\vdash$ | $\vdash$        |
| $\vdash$   | 19       | -        | -        | $\vdash$ | -        | ⊢        | Н        | -        | $\vdash$ | Н               |
| $\vdash$   | 20       | H        |          | $\vdash$ | ┝        | ⊢        | Н        | Н        | H        | Н               |
|  | 21       | $\vdash$ | _        | _        | ┢        | ┢        | Н        |          | H        | Н               |
| <b>—</b>   | 22       |          |          |          | H        | Г        |          | $\vdash$ | $\vdash$ | Н               |
|  | 23       | $\Box$   |          | П        | Г        | Г        |          |          |          | М               |
|  | 24       |          |          |          |          |          |          |          |          |                 |
|  | 25       | Ц        |          |          |          |          | Ш        |          |          |                 |
| ļ  | 26       | _        | L        | L_       | _        |          | L        | L        | Ь.,      | Ш               |
| <u> </u>   | 27       | L        | $\vdash$ | L        |          | _        | L.       |          | L_       | Ш               |
| <u> </u>   | 28       | -        | -        | -        | <u> </u> | <b> </b> | <u> </u> | _        |          | Н               |
| <u> </u>   | 29<br>30 | $\vdash$ | _        |          | -        | Н        | H        | -        | Н        | Н               |
| <del></del>                                      | 31       | $\vdash$ | H        | -        | $\vdash$ | H        | $\vdash$ | _        | -        | $\dashv$        |
|  | 32       | ┝        | -        |          | ┝        |          | -        | -        | -        |                 |
| <b>—</b>   | 33       | H        | H        | Н        | H        |          |          | -        | Н        | $\vdash$        |
|  | 34       | Г        | Г        |          | Т        | Г        |          | $\vdash$ | П        | Н               |
|  | 35       | Г        |          | Г        | Г        |          |          |          | П        | П               |
|  | 36       |          |          |          |          |          |          |          |          |                 |
|  | 37       |          |          |          |          |          |          |          |          |                 |
| <u> </u>   | 38       | $\Box$   |          |          | Ľ        | L        | L        | $\Box$   | $\Box$   |                 |
| <u></u>  | 39       | L        | <u> </u> | ļ        | <u> </u> | <u> </u> | L        | <u> </u> | <u> </u> | Ш               |
| <b> </b>   | 40       | L        | $\vdash$ | $\vdash$ | <u> </u> | ⊢        | ├        | <u> </u> | $\vdash$ | $\vdash$        |
| <u> </u>   | 41       | ├        | -        | $\vdash$ | $\vdash$ | ⊢        | ├─       | -        | -        | Н               |
| -  | 43       |          | -        | $\vdash$ | $\vdash$ | ┝        | -        | $\vdash$ |          | $\vdash \vdash$ |
|  | 44       | H        |          | -        | H        | H        | $\vdash$ | -        | Н        | H               |
| $\vdash$   | 45       | Н        | -        | -        | $\vdash$ | H        | $\vdash$ | Н        | $\vdash$ | Н               |
|  | 46       | Т        |          | Н        | $\vdash$ | Н        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash \vdash$ |
|  | 47       |          | П        | П        | Т        | Г        | $\vdash$ |          |          | Н               |
|  | 48       |          |          |          |          |          |          |          |          |                 |
|  | 49       |          |          |          |          |          |          |          |          |                 |
|  | 50       |          |          |          |          |          |          |          |          | П               |

| Cla         | im       |          |          |              | _        | Date            | 3        |          |                                     |             |
|-------------|----------|----------|----------|--------------|----------|-----------------|----------|----------|-------------------------------------|-------------|
| Final       | Original |          |          |              |          |                 |          |          |                                     |             |
|             | 51       |          |          |              |          |                 |          | -        | Ĺ                                   |             |
| L           | 52       |          |          |              |          |                 |          |          |                                     |             |
| Ь           | 53       | _        | _        | ╙            |          | L               | L        | L_       |                                     | L           |
| <b>├</b> —- | 54       | H        | -        | ├            | _        |                 | ⊢        | $\vdash$ | L                                   | Ļ           |
| <b> </b> -  | 55<br>56 | ├        | ┝        | ⊢            | -        | ⊢               | -        | _        | <u> </u>                            | ┡           |
| <b></b> -   | 57       | Н        | ┢        | ⊢            | _        | Н               | ┝╌       | $\vdash$ | ├                                   | ┝           |
| $\vdash$    | 58       | Т        | Г        | Н            | _        |                 | ┢        |          |                                     | Н           |
|             | 59       | Т        | Г        | Г            |          | Г               | ┢        | $\vdash$ |                                     | Т           |
|             | 60       |          |          |              |          |                 |          | Ш        |                                     |             |
|             | 61       | Ĺ        |          | $\Box$       |          |                 |          | 匚        |                                     | L           |
| L_          | 62       | <u> </u> | $\vdash$ | <u> </u>     | L.       | <u> </u>        | L        | $\vdash$ | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L           |
|             | 63       | H        | ⊢        | $\vdash$     | <u> </u> | <b> </b>        | <u> </u> | L        |                                     | _           |
| <u> </u>    | 64<br>65 | $\vdash$ | ├-       | ⊢            | <u> </u> | <b>-</b>        | <u> </u> | $\vdash$ | $\vdash$                            | $\vdash$    |
|             | 66       | H        | $\vdash$ | <del> </del> | -        | -               | _        | _        | -                                   | -           |
|             | 67       | -        | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$        | $\vdash$ | $\vdash$ | $\vdash$                            | -           |
|             | 68       |          | ┢        | ┢            | ┝╾       | ┝┈              | ┝        | $\vdash$ | -                                   | ⊢           |
|             | 69       |          | $\vdash$ | ┢            | ┢        |                 | ┪        | _        | $\vdash$                            | Н           |
|             | 70       |          |          |              |          |                 |          |          | Н                                   | Г           |
|             | 71       |          |          |              |          |                 |          |          |                                     |             |
|             | 72       |          |          |              |          |                 |          |          |                                     |             |
| Ш           | 73       | L        |          |              |          |                 |          |          | _                                   | L           |
| _           | 74       | L.       | _        | <u> </u>     | _        |                 | ļ        | _        | ۰.                                  |             |
|             | 75<br>76 | <u> </u> | -        | ⊢            | $\vdash$ | H               |          |          |                                     |             |
|             | 77       | -        |          | -            | _        | $\vdash$        | _        | -        | ⊢                                   | _           |
| _           | 78       | $\vdash$ | Н        | $\vdash$     |          | Н               | $\vdash$ | -        | Ε.                                  | -           |
|             | 79       |          |          | _            | _        | Н               | ┢        | Н        |                                     | Н           |
|             | 80       |          |          |              |          |                 |          |          |                                     | _           |
|             | 81       |          |          |              |          |                 |          |          |                                     |             |
|             | 82       |          |          |              |          |                 |          |          |                                     |             |
|             | 83       |          | Ш        | $\vdash$     | L.       | <u> </u>        | <u> </u> | _        | <u> </u>                            | L           |
| <b> </b>    | 84       | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$        | $\vdash$ | H        | $\vdash$                            | <u> </u>    |
|             | 85<br>86 | $\vdash$ | -        | ⊢            | H        | $\vdash$        | H        | H        | $\vdash$                            | μ.          |
|             | 87       | $\vdash$ | $\vdash$ | $\vdash$     | Η        | $\vdash$        | $\vdash$ | Н        | Н                                   | -           |
|             | 88       | $\vdash$ | Н        | $\vdash$     | Н        | ┢╌              | $\vdash$ | Н        |                                     | ┝           |
|             | 89       |          |          |              | -        |                 | -        | H        | Н                                   | -           |
|             | 90       |          |          |              |          |                 |          |          | П                                   |             |
|             | 91       |          |          |              |          |                 |          |          |                                     |             |
|             | 92       |          |          |              |          |                 |          |          |                                     |             |
| $\Box$      | 93       | L        |          | L            |          | П               |          |          | Ц                                   |             |
|             | 94       | $\vdash$ | L.,      | <u> </u>     | L        | Щ               |          | ·        |                                     | ļ           |
| ļ           | 95       | Н        | $\vdash$ | -            | Н        | $\vdash \vdash$ | <u> </u> | Н        | -                                   | <b> -</b> - |
| $\vdash$    | 96<br>97 | H        | $\vdash$ | H            | H        | Н               | -        | H        | -                                   | -           |
| $\vdash$    | 98       | H        | -        | H            | ۳        | $\vdash\dashv$  | <u> </u> | H        | H                                   | _           |
| $\vdash$    | 99       | Н        | $\vdash$ | Н            | Н        | $\vdash$        | Η-       | H        | $\vdash$                            | Η-          |

|        |            |           | _ |              |          |                                     |          |          | ,        |   |
|--------|------------|-----------|---|--------------|----------|-------------------------------------|----------|----------|----------|---|
| -      |            | Doto      |   |              |          |                                     |          |          |          |   |
|        | aim        | ۱         | _ | ·            |          | Date                                | ₽.       |          |          | 一 |
| Final  | Original   |           |   |              |          |                                     |          |          |          |   |
|        | 101        |           |   | _            |          |                                     | Г        | П        | Т        | П |
|        | 102        | Н         | _ | ┰            | Н        | ┢╾                                  | Т        |          |          | М |
|        | 103        |           | _ | Ι            | ┢        | _                                   | _        |          |          | П |
|        | 104        | Н         |   | _            | $\vdash$ |                                     | Н        |          | Т        | Н |
|        | 105        |           | _ | _            | ┢        | ┢                                   | Т        |          | П        | М |
|        | 106        | т         | _ | Т            | $\vdash$ |                                     | Г        | Т        |          | П |
|        | 107        | П         | _ |              |          |                                     | Г        |          |          | П |
|        | 108        |           |   |              |          |                                     |          |          |          | П |
|        | 109        |           |   | Г            |          | Г                                   |          |          |          | П |
|        | 110        |           |   |              |          |                                     |          |          |          |   |
|        | 111        |           |   |              |          |                                     |          |          |          |   |
|        | 112        |           |   |              |          |                                     |          |          |          |   |
|        | 113        |           |   |              |          |                                     |          |          |          |   |
|        | 114        |           |   |              |          |                                     |          |          |          | 口 |
|        | 115        |           |   |              |          |                                     |          |          |          |   |
|        | 116        |           |   |              |          |                                     |          |          |          |   |
|        | 117        |           |   |              |          |                                     |          |          |          | Ш |
|        | 118        |           |   |              |          |                                     |          |          | Ш        |   |
|        | 119        |           |   |              |          |                                     |          |          |          | Ш |
|        | 120        |           |   |              |          |                                     |          |          |          |   |
|        | 121        |           |   |              |          | Ш                                   | L.       |          | Щ        | Ш |
|        | 122        |           |   |              |          | Ш                                   |          |          |          | Ш |
|        | 123        |           | Щ | Щ            |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L        |          | _        | Щ |
|        | 124        |           |   | Щ            | $\vdash$ |                                     | ļ        | Ш        |          | Ш |
|        | 125        | _         |   | ш            | _        | _                                   |          |          | -        | Н |
| _      | 126        |           |   |              |          | ⊢                                   | -        |          | H        | Н |
| _      | 127<br>128 |           |   | $\vdash$     | _        | -                                   | H        | Н        | -        | Н |
|        | 129        |           | - | $\vdash$     | H        | ⊢                                   | ┝        |          | $\vdash$ | Н |
|        | 130        | $\exists$ |   | Н            | -        | $\vdash$                            | $\vdash$ | <b>-</b> |          | Н |
|        | 131        |           |   | Н            | _        | H                                   | Н        | $\vdash$ | -        | Н |
|        | 132        |           |   |              |          | H                                   | $\vdash$ | $\vdash$ | _        | Н |
|        | 133        |           | - | _            | $\vdash$ | $\vdash$                            | Н        | H        | $\vdash$ | Н |
| $\neg$ | 134        |           |   |              |          | $\vdash$                            |          |          |          | Н |
|        | 135        | $\exists$ |   |              | $\vdash$ | Г                                   |          |          |          | П |
|        | 136        |           |   |              |          | Г                                   |          | Т        |          | П |
|        | 137        |           |   |              |          |                                     |          |          |          | П |
|        | 138        |           |   |              |          |                                     |          |          |          | П |
|        | 139        |           |   |              |          |                                     | П        |          |          | П |
|        | 140        |           |   |              |          |                                     |          |          |          |   |
|        | 141        |           |   |              |          |                                     |          |          |          |   |
|        | 142        |           |   |              |          |                                     |          |          |          |   |
|        | 143        |           |   |              |          | $\cdot$                             |          |          |          |   |
|        | 144        |           |   |              |          |                                     |          |          |          |   |
|        | 145        |           |   |              |          |                                     |          |          | Ш        | Ш |
|        | 146        |           |   |              |          | Ш                                   |          |          | Ш        | Ц |
|        | 147        |           |   |              |          | Ш                                   | Щ        |          | _        | Ш |
|        | 148        | _         |   | $oxed{oxed}$ |          | Щ                                   | Щ        | Ш        | Щ        | Ш |
|        | 149        | $\dashv$  | Щ | Ш            | Ш        | Щ                                   | <b> </b> |          | <u> </u> | Ш |
|        | 150        |           | Ш | Ш            |          | ليا                                 |          | į        |          | Ш |